

MOTORIZING DISTRICT OF COLUMBIA FIRE DEPARTMENT WITH TRACTORS.



Upper left—Truck after being equipped with tractor.
Upper right—Fire truck equipped with tractor.
Bottom—No. 1 truck equipped with Christie front-drive tractor, installed last week.

MOTOR DRIVE FOR FIRE TRUCK NO. 1

Christie Front Tractor Is Installed on North Capitol Street Apparatus.

TRIO OF FIRE HORSES IS TRANSFERRED ELSEWHERE

District Department Now Is Held to Be Better Equipped Than Ever.

The present week will witness the motorizing of another truck company in the District fire department, when truck company No. 1, on North Capitol street between B and C streets, will install motor-driven apparatus. The truck which has been in use by this company has been converted into a motor-driven piece of apparatus by the addition of a Christie front drive tractor, similar to that now in use on several other pieces of the District fire department machines. The trio of fire horses will be transferred for service in other branches of the local department.

Following an official inspection by the District Commissioners and fire department officials last Thursday at the Municipal building, the recently converted truck was installed at No. 7 truckhouse, on 8th street southeast. This motor truck now is in service following several final inspections and road tests. The men are familiarizing themselves with the apparatus and are prepared for any long-distance runs to fires.

The Christie front-drive tractor was adopted by the local department after long and thorough inspections and tests by Chief Wagner and Superintendent of Machinery Robinson, who have devoted considerable time and study to the proposition of motorizing the District fire department in order that it might be up to the standard of that in use in other large cities. The new type of tractor has been designed especially for fire apparatus and to withstand hard service. The front drive is rather simple in construction.

All Parts Extra Strong.

The motor, transmission and control are combined in a single compact unit carried by the two driving wheels and so designed that it may be attached to a steam engine, aerial truck or water tower in a few hours. The motor is of the long stroke type, which delivers its maximum efficiency at comparatively low speed, consequently reducing wear. While rated to deliver ninety-horsepower, the crank shaft, connecting rods, main bearings and similarly important parts of the motor have been made large enough to transmit double this power. Fire department service is so severe that an allowance of this nature is absolutely necessary to withstand the abuse the apparatus naturally gets in service.

One of the features of this type of motor is the power transmission. The power is transmitted to the driving

wheels by a heavy roller chain, avoiding the employment of shafts and beveled gears. Owing to the special design of the driving wheels this chain is carried at practically the same level as the motor, almost three feet from the ground, keeping it free from dirt and danger of accident. Only the outer rim of the wheel carrying the fire revolves. This rim consists of a heavy steel band cut in the form of an internal gear on its inner surface and formed to take solid rubber tire on its outer circumference. It revolves on a ball-bearing of practically the same size as the wheel itself.

Motor Is Set Transversely.

The frame consists of heavy channel section steel members strongly braced both transversely and longitudinally and with ample riveted joints at every point necessary. The motor is carried transversely above the forward end of this frame, while the differential and driving shafts are supported below it near the rear. At the rear end the radiator for cooling the motor is hung instead of at the front, as is the case with most motor vehicles, thus placing it in an entirely protected position. It is of the honeycomb type, of ample size to cool the motor under the severest service, and it is supplemented by a large fan mounted in a housing just forward of the radiator, which insures a strong draught of air through it. The water supply is carried in a steel tank mounted on the main frame just above the radiator, while the fuel supply is kept in a large gasoline tank directly behind the driver's seat, and well above the carburetor, so that an ample amount of gasoline reaches the latter regardless of the quantity in the tank or the grade that the tractor may be climbing at the time.

With the putting into commission of the two trucks at No. 1 company, under command of Capt. Schrom, and No. 7, Capt. Hooper, the department is better equipped than it has ever been at any time. Work was started on the truck for No. 1 company Thursday morning and was completed yesterday. The work of transforming from horse-drawn to motor-driven is being carried on at the shops adjoining No. 3 engine house, on North Carolina avenue southeast, under the supervision of Supt. of Machinery Thomas M. Robinson. The front drive tractors are now in use on truck companies Nos. 1, 3 and 7 and the other motor-driven apparatus in service of the local fire department consists of a chemical hose wagon at No. 2 company, gas-electric couple gear-driven machine at No. 12 truck company, while No. 16 engine company has a motor-driven engine and hose wagon. Engine company No. 24 also is provided with a motor-driven chemical wagon and motor pumping engine, which pro-

ects the suburban sections adjacent to Georgia avenue, and No. 25 engine company, at Congress Heights, with a motor-driven pumping and hose carrier. Automobiles also are used for responding to fires by Chief Frank J. Wagner, Deputy Chief Sullivan, Fire Marshal T. W. Nicholson, Supt. of Machinery T. M. Robinson, First Battalion Chief Kelliher, Second Battalion Chief Henry and Third Battalion Chief Proctor. At the last session of Congress provision was made for purchasing two front-drive tractors and two chemical wagons of the motor-driven type.

AUTOMOBILE LICENSES

District automobile licenses have been issued since The Star's last report as follows:

24712—Dr. Thomas A. Poole, 5611 Connecticut avenue northwest, Dodge.
24713—J. H. Faust, 33 Maple avenue northwest, Little Giant Truck.
24719—W. H. Whittaker, Occoquan, Va., Buick.
24720—Carl A. Droop, 1840 Wyoming avenue northwest, Dodge.
24721—The Selby Company, 805 14th street northwest, demonstrating.
24722—Dr. A. E. Craig, 3127 P street northwest, Buick.
24723—Bernard Breslau, 2810 14th street northwest, Ford.
24724—Peter M. Dorsch, 1811 7th street northwest, Ford.
24725—Wallace D. Bick, 800 Florida avenue northwest, Wilcox-Trux.
24726—Wells Fargo & Co. Express, Washington, D. C., Garford truck.
24727—Adolph W. Sievers, 710 H street northwest, Overland.
24728—Rinaldi Bros., 2145 Georgia avenue northwest, Little Giant Truck.
24729—A. B. Moore, 65 W street northwest, Maxwell.
24730—Norman Ruland, Hotel Gratton, Ford.
24731—H. T. Poe, Jr., Fontanet Courts, Ford.
24732—Lansburgh Bros., 420 7th street northwest, Ford.
24733—Lansburgh Bros., 420 7th street northwest, Ford.
24734—Lansburgh Bros., 420 7th street northwest, Ford.
24735—Dora A. Messenger, Hammond Court, Buick & Lang Electric.
24736—Claude B. Cooksey, 871 14th street northwest, King.
24737—Adolph M. Fishel, 728 7th street northwest, Cadillac.
24738—Russell L. Padgett, Congress Heights, Oldsmobile.
24739—Frank J. Moses, 1353 Q street northwest, Regal.
24740—Paul Miner, 1202 Orren street northeast, Buick.
24741—National Auto Transfer, S. & C. C. Company, 728 13th street northwest, Wilcox-Trux.
24742—Dr. Robert Y. Sullivan, the Burlington, Ford.
24743—Daniel J. Weyman, 3040 14th street northwest, Ford.
24744—Davis Construction Company, Incorporated, Union Trust building, Maxwell.
24745—Mrs. R. L. Wolfe, 1110 I street southeast, Trumbull.
24746—C. W. Kleth, 138 11th street northeast, Ford.

24747—Dr. F. J. Ready, 219 North Capitol street, Ford.
24748—Betty M. Stein, 1524 1st street northwest, Ford.
24749—Dr. George B. West, 2464 Macomb street northwest, Chandler.
24750—Charles L. Lanham, care depot quartermaster, U. S. A., Overland.
24751—Lester Neuman, 1789 Lanier place northwest, Dodge.
24752—George C. Melody, 310 3d street northwest, Chevrolet.
24753—Corby Baking Company, 2301 Georgia avenue northwest, Ford.

Out-of-Town Licenses.

25439—C. F. Brane, Jarboeville, Md., Ford.
25440—F. W. Page, Friendship Heights, Md., Palmers.
25441—C. E. Morlitt, Camden, Ohio, Overland.
25442—R. A. McCormick, Baltimore, Md., Ford.
25443—J. W. Schulte, Baltimore, Md., Buick.
25444—Thomas G. Hays, Baltimore, Md., Buick.
25445—Daniel T. Hall, West River, Md., Saxon.
25446—Washington Perine, Baltimore, Md., Packard.
25447—William F. Auld, Baltimore, Md., Chalmers.
25448—Samuel A. VerValen, Baltimore, Md., Pullman.
25449—Sarah J. Watson, Baltimore, Md., Buick.
25450—George P. Knoblock, Baltimore, Md., Buick.
25451—J. M. Fisher, Baltimore, Md., Buick.
25452—A. De Bois, Baltimore, Md., Buick.
25453—Richard S. Hill, Upper Marlboro, Md., Ford.
25454—George R. Ellis, Baltimore, Md., Studebaker.
25455—Dr. Newman H. Cox, Arlington, Md., Ford.
25456—Thomas E. Wood, Silver Hill, Md., Ford.
25457—J. S. Manning, Richmond, Va., Ford.
25458—Mrs. M. G. Frost, New York City, N. Y., Paige.
25459—Christian Miller, Baltimore, Md., Packard.
25460—Luther Bladen, Takoma Park, Md., Ford.
25461—D. S. Mackall, McLean, Va., Ford.
25462—Frank Rybecki, Baltimore, Md., Ford.
25463—John M. Mankert, Laurel, Md., Ford.
25464—E. K. Smith, Brunswick, Md., Buick.
25465—S. A. Edlavitch, Mitchellville, Md., Buick.
25466—Joseph S. Bigelow, Riverview, Md., Buick.
25467—James Locke, Garrison, Md., Ford.
25468—Caroline Rennett, Baltimore, Md., Pierce-Arrow.
25469—Bertha A. Robinson, Baltimore, Md., Ford.
25470—J. A. Seippel, Baltimore, Md., Ford.
25471—Julian M. Howes, Ballston, Va., Maxwell.
25472—Richard W. Cook, Baltimore, Md., Stanley steamer.
25473—John U. Leister, Hampstead, Md., Kirt.
25474—C. W. Smith, Baltimore, Md., Cadillac.
25475—M. G. Dudson, Hyattsville, Md., Ford.
25476—J. Jenkins, Frostberg, Md., Studebaker.
25477—R. J. Bandel, Baltimore, Md., Grady.
25478—M. A. Oettinger, Baltimore, Md., Cadillac.
25479—J. W. Wadleigh, Annapolis, Md., Buick.
25480—Charles J. Dimmeling, Baltimore, Md., Hudson.
25481—Carl Hegerfeld, Baltimore, Md., Hudson.
25482—Albert J. Bayle, Baltimore, Md., Cadillac.
25483—J. W. Edelen, Baltimore, Md., Overland.
25484—Joseph Englar, Linwood, Md., Buick.
25485—Elkan R. Myers, Baltimore, Md., Ford.
25486—E. V. Hall, Smithsburg, Md., Overland.
25487—Hugh McGuire, Alexandria, Va., Packard.
25488—Henry W. Kibler, Chesapeake City, Md., Maxwell.
25489—L. L. Lloyd, Ballston, Va., Lion.
25490—Helen M. Buxton, Falls Church, Va., Ford.
25491—William D. Bergman, Riverdale, Md., Buick.
25492—Jana Carrie Kelly, Baltimore, Md., Ford.
25493—Annette L. Matthews, Baltimore, Md., Buick.
25494—H. W. Johnenning, Baltimore, Md., Ford.
25495—Rev. J. L. Sullivan, Lansdowne, Md., Ford.
25496—O. B. Zantsinger, Hyattsville, Md., Ford.
25497—William E. Hickey, Baltimore, Md., Overland.
25498—P. D. Hidy, Baltimore, Md., Overland.
25499—Miss Emma Marburg, Baltimore, Md., Packard.
25500—Frank T. Jones, Baltimore, Md., Overland.
25501—Jesse M. Rine, Baltimore, Md., Ford.
25502—Arthur Tufts, Baltimore, Md., Hudson.
25503—Daniel MacLean, Baltimore, Md., Haynes.
25504—Frederick S. Vincent, Franklin Park, Va., Cadillac.

25505—John L. Knight, Baltimore, Md., Ford.
25506—E. F. Arthurs, Baltimore, Md., Locomobile.
25507—H. B. Hoshall, Parkton, Md., Overland.
25508—Marion G. Smith, Baltimore, Md., Hudson.
25509—John A. Many, Baltimore, Md., Trumbull.
25510—Harry R. Jones, Muirkirk, Md., Buick.
25511—John B. Pyles, Cheltenham, Md., White.
25512—Nathaniel H. Luttrell, Falls Church, Va., Packard.
25513—Dr. Wilbert Price, Baltimore, Md., Locomobile.
25514—C. A. Fulk, Gaithersburg, Md., Case.
25515—Corrill C. Scarlett, Baltimore, Md., Pierce-Arrow.
25516—Mrs. Rosa Eiseaman, Baltimore, Md., Chalmers.
25517—Annie Stein, Baltimore, Md., Cadillac.
25518—Louis F. Glantz, Baltimore, Md., Cadillac.
25519—M. T. Walworth, Glenclaryn, Va., Maxwell.
25520—Walter R. Abell, Baltimore, Md., National.
25521—Thomas Towhey, Cabin John, Md., Overland.
25522—Lucy S. Bergland, Baltimore, Md., Locomobile.
25523—H. E. Canter, Aquasco, Md., Case.
25524—Florence J. Mitchell, LaPlata, Md., Buick.
25525—C. C. Kress, Indian Head, Md., Ford.
25526—George E. Sellik, Towson, Md., Overland.
25527—H. G. Machen, Mount Rainier, Md., Studebaker.
25528—C. B. Graham, Clarendon, Va., Ford.
25529—William A. Dickey, Catonsville, Md., Packard.
25530—Israel Putnam, Saratoga Springs, N. Y., Overland.
25531—John R. Leizer, Laurel, Md., Ford.
25532—Samuel F. Pottinger, Hyattsville, Md., Haynes.
25533—W. G. Bailey, Baltimore, Md., Ford.
25534—C. W. Shipley, Baltimore, Md., Buick.
25535—Howard M. Norris, Newberg, Md., Ford.
25536—A. J. Green, Monrovia, Md., Overland.
25537—Mrs. L. L. Dempsey, the Brighton, Washington, D. C., Pierce-Arrow.
25538—E. L. Hockman, Baltimore, Md., Buick.
25539—John C. Muth, Baltimore, Md., Hudson.
25540—James S. Groves, Alexandria, Va., Oldsmobile.
25541—Mrs. A. P. Sikes, Arlington, Va., Ford.
25542—John Smithdeal, Cherrydale, Va., Ford.
25543—Albert L. Gosnell, Laurel, Md., Ford.
25544—A. L. Baer, Baltimore, Md., King.
25545—William L. Duck, Baltimore, Md., Winton.
25546—W. B. Gardner, Catonsville, Md., Ford.
25547—James L. Moorehead, Baltimore, Md., Ford.
25548—W. L. Shepherd, Hyattsville, Md., Ford.
25549—Park, Livingston Heights, Va., Ford.
25550—John H. Lupton, North Beach, Md., Studebaker.
25551—William A. Moffat, Laurel, Md., Carter.
25552—Robert F. Hubbard, Baltimore, Md., Packard.
25553—Conrad Ruhl, Baltimore, Md., Ford.

25554—George R. Ruhl, Baltimore, Md., Overland.
25555—M. R. Roberts, Baltimore, Md., Overland.
25556—F. W. Essig, Baltimore, Md., Overland.
25557—James H. Chambers, Baltimore, Md., Ford.
25558—J. George Koch, Baltimore, Md., Ford.
25559—J. Frank Turner, Baltimore, Md., Ford.
25560—Mack Welsh, Baltimore, Md., Chalmers.
25561—J. F. H. Maginn, Baltimore, Md., Buick.
25562—R. M. Rau, Frederick, Md., Overland.
25563—C. F. Owens, Hyattsville, Md., Studebaker.
25564—Walter C. Mylander, Baltimore, Md., Overland.
25565—L. M. Eastman, Jr., Baltimore, Md., Paige.
25566—William M. Powell, Baltimore, Md., Ford.
25567—Richard T. Lowe, Gaithersburg, Md., Ford.

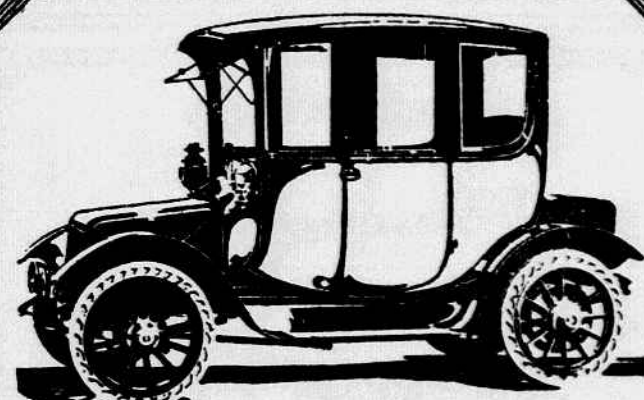
25568—Ernest E. Nordenjols, Baltimore, Md., Studebaker.
25569—W. E. Gemmell, Bancroft, Va., Ford.
25570—Dr. L. Hickman, Baltimore, Md., Buick.
25571—B. L. Brun, Baltimore, Md., Stevens-Duryea.

1915 Hudson Purchasers.

Among those who purchased 1915 Hudson 6-40 cars during the past week were S. S. Lutz, touring car; Countess Gzyska, cabriolet, finished in blue and black and upholstered in black leather; Mrs. I. Gans, roadster, and P. F. Nelligan, 6-54 touring car, with divided front seats and patent leather finish.

Buy Argo Roadsters.

During the past week Argo roadsters were delivered to W. E. Rose, Newport News, Va.; J. H. Carter, Leesburg, Va.; and St. Luke Order of this city.



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Electric for

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